

# Request for Proposals

## 2004 Coastal Illicit Discharge Elimination, Municipal Storm Sewer Mapping and Stormdrain System Monitoring Grant



The New Hampshire Department of Environmental Services (DES) invites municipalities within the coastal watershed to submit project proposals for illicit discharge elimination, storm sewer mapping and stormdrain system monitoring projects. Illicit discharges have been identified as a major source of high bacteria levels in the New Hampshire coastal watershed. Detailed maps of the municipal storm drain system can help identify illicit discharges as well as other pollution sources, and lead to quick responses during a chemical spill. Stormdrain system monitoring is a tool to identify the location of illicit discharges. This grant will help regulated municipalities comply with the new Phase II storm water regulations (see <http://www.des.state.nh.us/stormwater/>), but the grant is offered to all coastal communities, not just regulated MS4s. Funding for this grant is provided by the New Hampshire Estuaries Project. Selected projects will help implement the NHEP management plan.

### Project criteria

☒ DES will provide matching funds for the following types of projects:

- ❶ removal of illicit discharges into a municipal storm sewer system,
- ❷ production of detailed maps of a municipal storm sewer system and
- ❸ stormdrain system monitoring to identify illicit discharges.

☒ A match of at least 50% of total project cost is required. Matching funds must be from a non-federal source. Cash and/or in-kind services are acceptable forms of match.

☒ Criteria specific to illicit discharge elimination projects are as follows:

- Locations of illicit discharges to be eliminated are known.
- The illicit discharge drains into a municipal storm sewer system that is connected to a State surface waterbody in the coastal watershed. Types of discharges include sewage, laundry, or floor drains that are directly or indirectly connected to the storm drainage system.
- Property owners are likely to cooperate.
- Practical solutions can be implemented and results can be achieved.

☒ Criteria specific to storm sewer system mapping projects are as follows:

- Maps should be available in an electronic form consistent with the Town or City's GIS system. It is encouraged that the mapping format be compatible with regional planning commissions and the NH GRANIT system.

- Maps should show all of the following details:
  - catch basins
  - underground and above-ground (ditches, swales) storm drainage
  - direction of flow
  - outfall locations
- If your town lies on the Coastal/Merrimack watershed boundary, NHEP funding will only apply to the part of town that drains into the Coastal watershed.

☑ Criteria specific to stormdrain system monitoring projects as follows:

- Monitoring should identify non-stormwater discharges to a particular drainage area or watershed using the following steps:
  - Identify potential hot spots (likely areas of illicit discharges) using available information.
    - Commercial and Industrial areas
    - Town/ City areas with aging infrastructure
    - Documented complaints
    - Existing water quality sampling data
  - Dry weather field screening to look for non-stormwater discharges.
    - Outfall surveys
    - Manhole surveys
    - Incorporate field surveys with water quality sampling
  - Conduct water quality test of non-stormwater discharges for indications of illicit origins or not.
    - Visual observations of dry and wet pipes
      - a. stains
      - b. odors
      - c. solids
    - Use of certain water quality parameters to detect various types of pollution sources.
    - Bracketing of any suspected sources should be used to narrow and/ or find the source of the illicit discharge.

## Application Details

Please submit an electronic application by 4pm Friday, May 28, 2004. Projects must be completed by September 30, 2005. NHDES reserves the right to partially fund projects. To apply for this grant, please submit the following:

- The online application form.
- The online estimated budget, showing at least a 50% match
- Please limit the narrative portion of the application to no more than 3 pages, plus any graphics, and include the following information:
  1. Description of the project and location. A map showing the project location is recommended.
  2. Project schedule, including planned completion date.
  - 3A. Illicit discharge elimination projects
    - Waterbodies affected
    - Proposed solution

3B. Storm sewer mapping projects

- List of the details that will be shown on the resulting maps (catch basins, etc.)
- Geographic extent, description, and dates of any *existing* maps or storm drain system information
- Identification of the electronic format of the final product (ArcView, AutoCAD, etc.)

3C. Stormdrain system monitoring projects

- Identify the drainage areas and/or shorelines to be surveyed, include a map of the project area
- Provide a schedule for conducting surveys
- Prioritize areas for surveying based on available information.
- Description of survey(s) to be conducted. Consider using NEIWPCC *Illicit Discharge Detection Manual: A Handbook for Municipalities* (available free at [www.neiwpcc.org/iddmanual.pdf](http://www.neiwpcc.org/iddmanual.pdf)) for information on how to conduct Illicit Discharge Detection Surveys, including manhole observations, smoke and dye testing.
- Develop a list of discharge sources using information gathered in the survey. Each source should be identified as a street address, apartment number (if appropriate), a description of fix, and a timeline for fixing the illicit discharge.

✉ Email applications by 4pm Friday, May 28, 2004, to: Jillian Jones, [jjones@des.state.nh.us](mailto:jjones@des.state.nh.us). If you are unable to submit an electronic application via email, please contact Jillian Jones at 271-8475 for a paper copy of the application.

☎ If you have any questions concerning this grant or need assistance completing the application, please contact Rob Livingston at 271-3398 or [rlivingston@des.state.nh.us](mailto:rlivingston@des.state.nh.us)